

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

Source

Date Processed by STIC:

 $C = \frac{1}{3} = \frac{1}{10} = \frac{1}{1$

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,

2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221 Effective 12/13/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER VERSION 4.1 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>, EFS Submission User Manual cPAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- Hand Carry directly to (EFFECTIVE 12/01/03):
 U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
- Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 4B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 10/645) 471
ATTN: NEW RULES CASES:	PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE
Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
SVariable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6Patentin 2.0 "bug"	A "bug" in Patentln version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, Patentln would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown). (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
10_V_Invalid <213> Response -	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
11Use of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 00/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
Patentin 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandating in dentifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFWO

RAW SEQUENCE LISTING

DATE: 03/01/2004

PATENT APPLICATION: US/10/645,471

TIME: 07:09:10

Input Set : D:\53223-20005.00 - SEQ Listing.txt

Output Set: N:\CRF4\03012004\J645471.raw

```
4 <110> APPLICANT: Ebbinghaus, Scot W.
         Hurley, Laurence H.
 6
         Siddiqui-Jain, Adam
 7
         Memmott, Regan
 9 <120> TITLE OF INVENTION: METHODS FOR REGULATING TRANSCRIPTION BY
10
        TARGETING QUADRUPLEX DNA
13 <130> FILE REFERENCE: 532232000500
15 <140> CURRENT APPLICATION NUMBER: 10/645,471
16 <141> CURRENT FILING DATE: 2003-08-20
                                                         Does Not Comply
                                                         Corrected Diskette Needed
18 <150> PRIOR APPLICATION NUMBER: 60/404,965
19 <151> PRIOR FILING DATE: 2002-08-20
                                                                ( ps. 2
21 <160> NUMBER OF SEQ ID NOS: 32
23 <170> SOFTWARE: FastSEQ for Windows Version 4.0
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 12
27 <212> TYPE: DNA
28 <213> ORGANISM: Unknown
30 <220> FEATURE:
31 <223> OTHER INFORMATION: oligonucleotide
33 <400> SEQUENCE: 1
                                                                      12
34 ggaggaggag ga
36 <210> SEQ ID NO: 2
37 <211> LENGTH: 11
38 <212> TYPE: DNA
39 <213> ORGANISM: Unknown
41 <220> FEATURE:
42 <223> OTHER INFORMATION: oligonucleotide
44 <400> SEQUENCE: 2
45 ggaggaggag g
                                                                      11
47 <210> SEQ ID NO: 3
48 <211> LENGTH: 22
49 <212> TYPE: DNA
50 <213> ORGANISM: Unknown
52 <220> FEATURE:
53 <223> OTHER INFORMATION: oligonucleotide
55 <400> SEQUENCE: 3
                                                                      22
56 ggaggaggag gggaggagga gg
58 <210> SEQ ID NO: 4
59 <211> LENGTH: 23
60 <212> TYPE: DNA
61 <213> ORGANISM: Artificial Sequence
63 <220> FEATURE:
64 <223> OTHER INFORMATION: oligonucleotide
```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/645,471

DATE: 03/01/2004 TIME: 07:09:10

23

Input Set : D:\53223-20005.00 - SEQ Listing.txt

Output Set: N:\CRF4\03012004\J645471.raw

W--> 66 <221> NAME/KEY: misc feature 67 <222> LOCATION: 12

68 <223> OTHER INFORMATION: n = A, T, C or G

W--> 70 <400> 4

W--> 71 ggaggaggag gnggaggagg agg

73 <210> SEQ ID NO: 5

74 <211> LENGTH: 24

75 <212> TYPE: DNA

76 <213> ORGANISM: Unknown

78 <220> FEATURE:

or G correct Seeling 37 Griph htplain

Please 12337.

Presponsion 1207

Presponsion 79 <223> OTHER INFORMATION: oligonucleotide

W--> 81 <221> NAME/KEY: misc feature

82 <222> LOCATION: 12, 13

83 <223> OTHER INFORMATION: n = A, T, C or G

W--> 85 <400> 5

W--> 86 ggaggaggag gnnggaggag gagg

88 <210> SEQ ID NO: 6

89 <211> LENGTH: 25

90 <212> TYPE: DNA

91 <213> ORGANISM: Unknown

93 <220> FEATURE:

94 <223> OTHER INFORMATION: oligonucleotide

W--> 96 <221> NAME/KEY: misc feature

97 <222> LOCATION: 12, 13, 14

98 <223> OTHER INFORMATION: n = A, T, C or G

W--> 100 <400> 6

W--> 101 ggaggaggag gnnnggagga ggagg

103 <210> SEQ ID NO: 7

104 <211> LENGTH: 26

105 <212> TYPE: DNA 106 <213> ORGANISM Unkown

108 <220> FEATURE:

109 <221> NAME/KEY: misc feature

110 <222> LOCATION: 12, 13, 14, 15

111 <223> OTHER INFORMATION: n = A, T, C or G

113 <400> SEQUENCE: 7

W--> 114 ggaggaggag gnnnnggagg aggagg

116 <210> SEQ ID*NO: 8

117 <211> LENGTH: 27 118 <212> TYPE: DNA

119 <213> ORGANISM: Unknown

121 <220> FEATURE:

122 <223> OTHER INFORMATION: oligonucleotide

W--> 124 <221> NAME/KEY: misc feature

125 <222> LOCATION: 12, $\overline{13}$, 14, 15, 16

126 <223> OTHER INFORMATION: n = A, T, C or G

W--> 128 <400> 8

W--> 129 ggaggaggag gnnnnnggag gaggagg

131 <210> SEQ ID NO: 9

27

Please see item# 10 on erron summery

file://C:\CRF4\Outhold\VsrJ645471.htm

RAW SEQUENCE LISTING DATE: 03/01/2004 PATENT APPLICATION: US/10/645,471 TIME: 07:09:10

Input Set : D:\53223-20005.00 - SEQ Listing.txt

Output Set: N:\CRF4\03012004\J645471.raw

```
132 <211> LENGTH: 28
     133 <212> TYPE: DNA
     134 <213> ORGANISM: Unknown
     136 <220> FEATURE:
                                   -please correct spelling,
     137 <223> OTHER INFORMATION: oligonucleotide
W--> 139 <221> NAME/KEY: misc feature
     140 <222> LOCATION: 12, 13, 14, 15, 16, 17
     141 <223> OTHER INFORMATION: n = A, T, C or G
W--> 143 <400> 9
W--> 144 ggaggaggag gnnnnnngga ggaggagg
                                                                            28
     146 <210> SEQ ID NO: 10
     147 <211> LENGTH: 29
     148 <212> TYPE: DNA
     149 <213> ORGANISM: Unkown
     151 <220> FEATURE:
     152 <223> OTHER INFORMATION: oligonucleotide
W--> 154 <221> NAME/KEY: misc_feature
W--> 155 <222> LOCATION: 12, 13, 14, 15, 16, 17, 18
     156 <223> OTHER INFORMATION: n = A, T, C or G
     158 <400> SEQUENCE: 10
                                                                            29
W--> 159 ggaggaggag gnnnnnnngg aggaggagg
     161 <210> SEQ ID NO: 11
     162 <211> LENGTH: 30
     163 <212> TYPE: DNA
     164 <213> ORGANISM: Unknown
     166 <220> FEATURE:
     167 <223> OTHER INFORMATION: oligonucleotide
W--> 169 <221> NAME/KEY: misc_feature
     170 <222> LOCATION: 12, 13, 14, 15, 16, 17, 18, 19
     171 <223> OTHER INFORMATION: n = A, T, C or G
W--> 173 <400> 11
                                                                            30
W--> 174 ggaggaggag gnnnnnnnng gaggaggagg
     176 <210> SEQ ID NO: 12
     177 <211> LENGTH: 31
     178 <212> TYPE: DNA
     179 <213> ORGANISM: Unknown
     181 <220> FEATURE:
     182 <223> OTHER INFORMATION: oligonucleotide
W--> 184 <221> NAME/KEY: misc feature
     185 <222> LOCATION: 12, 13, 14, 15, 16, 17, 18, 19, 20
     186 <223> OTHER INFORMATION: n = A, T, C or G
W--> 188 <400> 12
                                                                            31
W--> 189 ggaggaggag gnnnnnnnn ggaggaggag g
     191 <210> SEQ ID NO: 13
     192 <211> LENGTH: 32
     193 <212> TYPE: DNA
     194 <213> ORGANISM: Unknown
     196 <220> FEATURE:
     197 <223> OTHER INFORMATION: oligonucleotide
```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/645,471 TIME: 07:09:10

DATE: 03/01/2004

Input Set : D:\53223-20005.00 - SEQ Listing.txt

Output Set: N:\CRF4\03012004\J645471.raw

W--> 199 <221> NAME/KEY: misc feature

- 200 <222> LOCATION: 12, 13, 14, 15, 16, 17, 18, 19, 20, 21
- 201 <223> OTHER INFORMATION: n = A, T, C or G

W--> 203 <400> 13

- W--> 204 ggaggaggag gnnnnnnnn nggaggagga gg 32.
 - 206 <210> SEQ ID NO: 14
 - 207 <211> LENGTH: 66
 - 208 <212> TYPE: DNA
 - 209 <213> ORGANISM: Unknown
 - 211 <220> FEATURE:
 - 212 <223> OTHER INFORMATION: oligonucleotide
 - 214 <400> SEQUENCE: 14
 - 215 tttctcagga gaaagagcag cagcagctca cggaggagga ggagaaggag gaggaggaaa 60
 - 216 caggtt
 - 218 <210> SEQ ID NO: 15
 - 219 <211> LENGTH: 27
 - 220 <212> TYPE: DNA 221 <213> ORGANISM: Unknown
 - 223 <220> FEATURE:
 - 224 <223> OTHER INFORMATION: oligonucleotide
 - 226 <400> SEQUENCE: 15
 - 227 ggaggaggag gaagaggagg aggaggc 27
 - 229 <210> SEQ ID NO: 16
 - 230 <211> LENGTH: 38
 - 231 <212> TYPE: DNA
 - 232 <213> ORGANISM: Unknown
 - 234 <220> FEATURE:
 - 235 <223> OTHER INFORMATION: oligonucleotide
 - 237 <400> SEQUENCE: 16
 - 238 agagaagag ggaggaggag gaggagagga ggaggcgc 38
 - 240 <210> SEQ ID NO: 17
 - 241 <211> LENGTH: 13
 - 242 <212> TYPE: DNA
 - 243 <213> ORGANISM: Unknown
 - 245 <220> FEATURE:
 - 246 <223> OTHER INFORMATION: oligonucleotide
 - 248 <400> SEQUENCE: 17
 - 249 ggagggggag ggg
 - 251 <210> SEQ ID NO: 18
 - 252 <211> LENGTH: 28
 - 253 <212> TYPE: DNA
 - 254 <213> ORGANISM: Unknown
 - 256 <220> FEATURE:
 - 257 <223> OTHER INFORMATION: oligonucleotide
 - 259 <400> SEQUENCE: 18
 - 260 aggagaagga ggaggtggag gaggaggg
 - 262 <210> SEQ ID NO: 19
 - 263 <211> LENGTH: 32
 - 264 <212> TYPE: DNA

13

28

RAW SEQUENCE LISTING

DATE: 03/01/2004 645,471 TIME: 07:09:10

PATENT APPLICATION: US/10/645,471 TIME: 07

Input Set : D:\53223-20005.00 - SEQ Listing.txt

Output Set: N:\CRF4\03012004\J645471.raw

	<213> ORGANISM: Unknown	
	<220> FEATURE:	
268	<223> OTHER INFORMATION: oligonucleotide	
270	<400> SEQUENCE: 19	
271	ggaggaggaa gaatgcgagg aggagggagg ag	32
273	<210> SEQ ID NO: 20	
274	<211> LENGTH: 25	
275	<212> TYPE: DNA	
276	<213> ORGANISM: Unknown	
278	<220> FEATURE:	
279	<223> OTHER INFORMATION: oligonucleotide	
	<400> SEQUENCE: 20	
282	ccgaaggagg aaggaggagg	25
	<210> SEQ ID NO: 21	
	<211> LENGTH: 35	
	<212> TYPE: DNA	
	<213> ORGANISM: Unknown	
	<220> FEATURE:	
	<223> OTHER INFORMATION: oligonucleotide	
	<400> SEQUENCE: 21	
	agcgaggagg aggaggagga ggaggaggag aggaa	35
	<210> SEQ ID NO: 22	00
	<211> LENGTH: 17	
	<212> TYPE: DNA	
	<213> ORGANISM: Unknown	
	<220> FEATURE:	
	<223> OTHER INFORMATION: oligonucleotide	
	<400> SEQUENCE: 22	
	agaagagga ggaggag	17
	<210> SEQ ID NO: 23	1 /
	<211> LENGTH: 13	
	<212> TYPE: DNA	
	<213> ORGANISM: Unknown	
		•
	<220> FEATURE:	
	<223> OTHER INFORMATION: oligonucleotide	
	<400> SEQUENCE: 23	13
	ggaaggagga gga	13
	<210> SEQ ID NO: 24	
	<211> LENGTH: 21	
	<212> TYPE: DNA	
	<213> ORGANISM: Unknown	
	<220> FEATURE:	
	<223> OTHER INFORMATION: oligonucleotide	
	<400> SEQUENCE: 24	
	ctcctcctcc ttcccctcc c	21
	<210> SEQ ID NO: 25	
	<211> LENGTH: 16	
	<212> TYPE: DNA	
331	<213> ORGANISM: Unknown	

RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/10/645,471

DATE: 03/01/2004 TIME: 07:09:11

Input Set : D:\53223-20005.00 - SEQ Listing.txt

Output Set: N:\CRF4\03012004\J645471.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:4; N Pos. 12
Seq#:5; N Pos. 12,13
Seq#:6; N Pos. 12,13,14
Seq#:7; N Pos. 12,13,14,15
Seq#:8; N Pos. 12,13,14,15,16
Seq#:9; N Pos. 12,13,14,15,16,17
Seq#:10; N Pos. 12,13,14,15,16,17,18
Seq#:11; N Pos. 12,13,14,15,16,17,18,19
Seq#:12; N Pos. 12,13,14,15,16,17,18,19,20
Seq#:13; N Pos. 12,13,14,15,16,17,18,19,20,21

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/645,471

DATE: 03/01/2004 TIME: 07:09:11

Input Set : D:\53223-20005.00 - SEQ Listing.txt

Output Set: N:\CRF4\03012004\J645471.raw

L:66 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order! L:70 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4 L:71 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0 L:81 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order! L:85 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5 L:86 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0 L:96 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order! L:100 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:6 L:101 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0 L:114 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0 L:124 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order! L:128 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:8 L:129 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0 L:139 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order! L:143 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9 L:144 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0 L:154 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order! L:155 M:281 W: Numeric Fields not Ordered, <222> Sort in ascending order! L:159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0 L:169 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order! L:173 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:11 L:174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0 L:184 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order! L:188 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:12 L:189 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0 L:199 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order! L:203 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:13 L:204 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0